

ABSTRACT

5 This invention relates to the field of olefin polymerization catalyst compositions, and methods for the polymerization and copolymerization of olefins, including polymerization methods using a catalyst composition. One aspect of this invention is the formation and use of a catalyst composition comprising a stannoxy-substituted half-sandwich metallocene and an activator for olefin polymerization processes. For example, this invention encompasses the
10 preparation of $(\eta^5\text{-C}_5\text{H}_5)\text{Ti}(\text{OSnPh}_3)\text{Cl}_2$, its contact with an activator, for example, zinc-impregnated chlorided alumina, to form a catalyst composition, and the use of this catalyst composition for polymerizing olefins or acetylenes.

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